

Simulation modeling in improving pedestrians' safety at non-signalized crosswalks

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Abstract

The paper presents an analysis of road traffic accidents at non-signalized pedestrian crosswalks. A field study was conducted to determine the parameters for traffic and pedestrian flow, and construct the simulation models enabling experimentation at different loadings on the street and road network. Variants for improving the pedestrian safety at non-signalized crosswalks have been proposed. Simulation modeling of the proposed managerial decisions is expected to diminish the likelihood of road accidents. The efficiency of proposed decisions has been estimated.

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